Application No. 10/572,616

Amdt. Dated: June 4, 2009

Reply to Office Action Dated: March 17, 2009

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (Previously presented) An image processing system for reduction of noise and enhancement of edges in images of a sequence, comprising:

a decomposer that decomposes a spatial image signal yielding slices of different content, the decomposition being based on pyramidal decomposition;

a filter that temporally filters one or more of the slices for differently filtering the slices according to the content, wherein one or more high frequency slices are filtered at a greater rate than one or more low frequency slices; and

a recomposer that recomposes the images of the sequence from at least the temporally filtered slices

- 2. (Previously presented) The system of claim 1, wherein the pyramidal decomposition is one of Laplacian or Gaussian decomposition.
- 3. (Previously presented) The system of claim 1, wherein the temporal filtering comprises adaptive filtering
- 4. (Previously presented) The system of claim 1, wherein the temporal filtering comprises motion compensation.
- 5. (Previously presented) The system of claim 1, wherein the temporal filtering comprises recursive adaptive filtering.
- 6 (Previously presented) The system of claim 1, further comprising a display device for displaying the images of the sequence

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7 (Previously presented) A computer-readable storage medium, comprising computer instructions for:

decomposing a spatial image signal yielding slices of different content, the decomposition being based on pyramidal decomposition;

temporally filtering one or more of the slices for differently filtering the slices according to the content, wherein one or more high frequency slices are filtered at a greater rate than one or more low frequency slices; and

recomposing the images of the sequence from at least the temporally filtered slices.

8. (Currently amended) A method of imaging, wherein the method is performed by a computing system, comprising:

decomposing a spatial image signal yielding slices of different content, the decomposition being based on pyramidal decomposition;

temporally filtering at least a portion of the slices for differently filtering the slices according to the content, wherein one or more high frequency slices are filtered at a greater rate than one or more low frequency slices; and

recomposing the images of the sequence from the temporally filtered slices and one or more unfiltered slices

- 9. (Previously presented) The method of claim 8, wherein the temporal filtering comprises motion compensation
- 10 (Previously presented) The method of claim 8, further comprising applying Laplacian pyramid decomposition to perform the decomposition of the spatial image signal.
- 11. (Previously presented) The method of claim 8, further comprising applying Gaussian pyramid decomposition to perform the decomposition of the spatial image signal.

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- 12. (Previously presented) The method of claim 8, further comprising applying adaptive temporal recursive filtering to perform the temporal filtering of the at least a portion of the slices.
- 13. (Previously presented) The method of claim 8, wherein the temporal filtering comprises adaptive filtering.
- 14. (Previously presented) The method of claim 8, further comprising displaying the recomposed images of the sequence.
- 15. (Previously presented) The computer readable storage medium of claim 7, further comprising computer instructions for applying Laplacian pyramid decomposition to perform the decomposition of the spatial image signal.
- 16. (Previously presented) The computer readable storage medium of claim 7, further comprising computer instructions for applying Gaussian pyramid decomposition to perform the decomposition of the spatial image signal.
- 17. (Previously presented) The computer readable storage medium of claim 7, further comprising computer instructions for applying adaptive temporal recursive filtering to perform the temporal filtering of the at least a portion of the slices.
- 18. (Previously presented) The computer readable storage medium of claim 7, wherein the temporal filtering comprises adaptive filtering.
- 19. (Previously presented) The computer readable storage medium of claim 7, further comprising computer instructions for displaying the recomposed images of the sequence.
- 20. (Previously presented) The computer readable storage medium of claim 7, wherein the temporal filtering comprises motion compensation.